

Appl. No. 10/782,259
Reply to Notice of Non-Responsive Amendment dated May 25, 2007

RECEIVED
CENTRAL FAX CENTER
JUN 15 2007

Amendments to the Claims:

This listing and version of the claims replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-66. (cancelled)

67. (New) A sealant region for encapsulating at least one display device comprising:

a first material layer formed over one or more layers of material disposed over a first substrate having a pixel within a display region, the first material layer extending from the display region to a sealant region, the first material layer comprising a plurality of substantially parallel openings formed therethrough, the parallel openings exposing a surface of the one or more layers of material; and

a predetermined sealant formed over the sealant region perpendicular to the openings and attaching a second substrate,

wherein the sealant is disposed over and contacts the first material layer and is disposed within the openings and contacts the exposed surface of the one or more layers of material, the sealant sealing the sealant region between the first and second substrates, and

wherein the sealant has substantially flat contact surfaces with the first material layer and the exposed surface of the one or more layers of material.

68. (New) The sealant region of claim 67 wherein the openings have a uniform width.

69. (New) The sealant region of claim 67 wherein the one or more layers of material comprises a passivation layer.

70. (New) The sealant region of claim 67, wherein the first material layer is an organic polymer layer.

Appl. No. 10/782,259

Reply to Notice of Non-Responsive Amendment dated May 25, 2007

71. (New) The sealant region of claim 67, wherein the one or more layers of material comprises a dielectric layer.

72. (New) The sealant region of claim 67, wherein the sealant in the openings is balanced along a center axis of the sealant region.

73. (New) The sealant region of claim 67, wherein a width of the openings is narrower than a total width of the sealant region.

74. (New) A display device, the display device comprising a display region and a sealant region according to claim 67, the sealant region having a width and surrounding the display region, wherein the one or more layers of material cover at least one pixel within the display region, each of the openings is substantially parallel to the width of the sealant region and exposes part of the one or more layers of material, and the second substrate is disposed on the sealant for attaching thereon.

75. (New) The display device of claim 74, wherein the first substrate comprises a device substrate.

76. (New) The display device of claim 74, wherein the second substrate comprises a shield substrate.

77. (New) The display device of claim 74, wherein the one or more layers of material comprise a passivation layer.

78. (New) The display device of claim 74, wherein the one or more layers of material comprise a dielectric layer.

79. (New) The display device of claim 74, wherein the first material layer comprises an organic polymer layer.

80. (New) The display device of claim 74, wherein the openings have a uniform width.

Appl. No. 10/782,259

Reply to Notice of Non-Responsive Amendment dated May 25, 2007

81. (New) The display device of claim 74, wherein a width of the openings is narrower than the width of the sealant region.

82. (New) The display device of claim 74, wherein the opening is balanced along a center axis of the sealant region.

83. (New) The display device of claim 74, wherein the opening has a saw-tooth form.

84. (New) The display device of claim 83, wherein the saw-tooth form is modified to avoid sharp angles.

85. (New) The display device of claim 74, wherein the opening has an interlaced form.

86. (New) The display device of claim 74, wherein the first substrate having a plurality of organic light emission pixel in the display region.